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        Oct 09
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NEWS 15 Dec 10 DGENE BLAST Homology Search
NEWS 16 Dec 17 WELDASEARCH now available on STN
NEWS 17 Dec 17 STANDARDS now available on STN
NEWS 18 Dec 17 New fields for DPCI
NEWS 19 Dec 19
                CAS Roles modified
NEWS 20 Dec 19
                1907-1946 data and page images added to CA and CAplus
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                BLAST(R) searching in REGISTRY available in STN on the Web
                Searching with the P indicator for Preparations
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        Jan 25
NEWS 23
        Jan 29
                FSTA has been reloaded and moves to weekly updates
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                DKILIT now produced by FIZ Karlsruhe and has a new update
                frequency
NÉWS EXPRESS
             February 1 CURRENT WINDOWS VERSION IS V6.0d,
             CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
             AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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=> s milk or milk product#

L1 110378 MILK OR MILK PRODUCT#

=> s candida or debaryomyces or saccharomyces or zygosaccharomyces L2 13077 CANDIDA OR DEBARYOMYCES OR SACCHAROMYCES OR ZYGOSACCHAROMYCES

=> s micrococcus or arthrobacter or corynebacterium L3 2852 MICROCOCCUS OR ARTHROBACTER OR CORYNEBACTERIUM

=> s 11 and 12

L4 654 L1 AND L2

=> s l1/ti

L5 48454 L1/TI

=> s 15 and 12

L6 212 L5 AND L2

=> s 15 and 12 and 13

L7 6 L5 AND L2 AND L3

=> d 1-6 all

- L7 ANSWER 1 OF 6 FSTA COPYRIGHT 2002 IFIS
- AN 2001(12):P1901 FSTA
- TI The surface flora of bacterial smear-ripened cheeses from cow's and goat's milk.
- AU Bockelmann, W.; Hoppe-Seyler, T.
- CS Postfach 6069, 24121 Kiel, Germany. Fax +49-431-6092306. E-mail bockelmann(a)bafm.de
- SO International Dairy Journal, (2001), 11 (4-7) 307-314, 21 ref. ISSN: 0958-6946
- DT Journal
- LA English
- AB Microbiological quality of 3 bacterial smear-ripened cheeses (Tilsit cheese, Chaumes cheese and a semi-hard goats' cheese) is reported. Model cheese systems were then used to study interactions of the predominant strains identified and their effect on microbial growth, and cheese aroma compound and pigment production were investigated in order to formulate a defined starter culture. Debaryomyces hansenii was the predominant yeast in all stages of ripening in all cheeses. 75-95% of bacteria were coryneform bacteria. Brevibacterium linens was found at 0-15%. Yellow-pigmented coryneform isolates (1-30%) were identified as Arthrobacter nicotianae. Non-pathogenic staphylococci (mainly Staphylococcus equorum) comprised 5-15% of the total flora. The successful use of a defined 5-strain starter (D. hansenii, B. linens, A. nicotianae, Corynebacterium ammoniagenes and S. sciuri) for Tilsit cheese ripening was also demonstrated.
- CC P (Milk and Dairy Products)
- CT CHEESE VARIETIES; CHEESEMAKING; MICROBIOLOGICAL QUALITY; STARTERS;

MODELLING; SMEAR CHEESE

- L7 ANSWER 2 OF 6 FSTA COPYRIGHT 2002 IFIS
- AN 1985(12):P0084 FSTA
- TI Preparation and antibacterial activity of different acidophilus milk foods.
- AU Gandhi, D. N.; Nambudripad, V. K. N.
- CS Nat. Dairy Res. Inst., Karnal 132001, India
- SO Indian Journal of Dairy Science, (1980), 33 (4) 484-489, 10 ref.
- DT Journal
- LA English
- AΒ Acidophilus sour milk (ASM) was prepared using 2% Lactobacillus acidophilus starter (4 strains tested), acidophilus yoghurt (AY) was prepared using 1:1 L. acidophilus R/Streptococcus thermophilus H starter, and acidophilus yeast milk (AYM) was prepared using 2% each of L. acidophilus R and yeast (Saccharomyces fragilis R or Sacc. cerevisiae UCD-522). The ASM made with L. acidophilus R contained 1.5% lactic acid, and showed the greatest inhibitory activity against Escherichia coli, Bacillus subtilis, Micrococcus flavus and Staphylococcus aureus, optimum temp. for antibacterial activity being 40.degree. C. Unflavoured AY showed inhibitory activity against M. flavus only, whilst AY flavoured with tomato juice inhibited E. coli, M. flavus, Staph. aureus and Salmonella weltevreden. The AYM prepared with Sacc. fragilis had a lower alcohol content than that prepared with Sacc. cerevisiae. Sacc. fragilis did not contribute to the inhibitory activity observed against 4 test organisms. Order of acceptability of the acidophilus products was AY + fruit > AYM > flavoured AY > AY > ASM.
- CC P (Milk and Dairy Products)
- CT BACTERIA; FERMENTED MILK; INHIBITION; MILK; STARTERS; ACIDOPHILUS MILK; ANTIBACTERIAL ACTIVITY; CULTURED MILKS
- L7 ANSWER 3 OF 6 FSTA COPYRIGHT 2002 IFIS
- AN 1982(07):H1094 FSTA
- TI Quality control in coconut milk processing. II. Microbial contaminants.
- AU Mabesa, R. C.; Rosario, R. R. del
- CS Dep. of Food Sci. & Tech., UP at Los Banos, College, Laguna, Philippines
- SO Philippine Agriculturist, (1979), 62 (3) 167-175, 14 ref.
- DT Journal
- LA English
- AΒ The study was conducted to determine the types of organisms that may be introduced by the raw material, processing equipment and other utensils used in the processing of coconut milk. In addition, the influence of sanitization of the microflora was studied. A large number of bacteria, moulds, yeasts, as well as coliform organisms were present in coconut milk. The use of sanitizing agents resulted in a significant reduction of the types of organisms present in the cream. Some of the persistent bacteria were members of the following genera: Bacillus, Achromobacter, Microbacterium, Micrococcus, Brevibacterium and some coliform organism. Among the genera of yeasts and moulds found in the product were Penicillium, Saccharomyces, Geotrichum, Mucor and Fusarium. Organisms isolated from the different materials used for processing were usually found in the final product. These findings showed the importance of plant sanitation and personal hygiene in the processing of coconut milk. [See FSTA (1977) 9 12J1945 for part I.]
- CC H (Alcoholic and Non-Alcoholic Beverages)
- CT BEVERAGES; COCONUTS; CONTAMINATION; MICROORGANISMS; COCONUT MILK; MICROBIAL CONTAMINATION
- L7 ANSWER 4 OF 6 FSTA COPYRIGHT 2002 IFIS
- AN 1982(01):P0081 FSTA
- TI The bacterial content of creamed milk.

```
Abo-Elnaga, G.; Metwally, N. H.; El-Mansy, El-M. M.
ΑU
     Fac. of Agric., Assiut Univ., Assiut, Egypt
CS
     Archiv fuer Lebensmittelhygiene, (1981), 32 (1) 19-21, 8 ref.
so
DT
     Journal
LA
     English
SL
     German
     Samples of cows' bulk milk were kept for 24 h at 4.degree. and 15.degree.
AB
     C resp., and the cream layer and partially skimmed milk (PSM) examined
     bacteriologically. The number of contaminating bacteria in the PSM
     decreased to 0.4-23% of that in the whole milk. The predominant bacteria
     in the cream were streptococci, micrococci and Gram-negative bacteria.
     Streptomyces were present in the raw milk but failed to rise with the fat
     globules and remained in the PSM. Creaming reduced the numbers of
     Escherichia coli, Streptococcus lactis, Saccharomyces spp.,
     Bacillus subtilis and Micrococcus spp. in the PSM to 0.7, 1.0,
     2.3, 6.5 and 12.5% resp. when these organisms were added separately to
     aseptically drawn milk.
CC
     P (Milk and Dairy Products)
     BACTERIA; CREAM; FATS MILK; MILK; MILK FATS; SKIM MILK; SKIM-MILK
CT
L7
     ANSWER 5 OF 6 FSTA COPYRIGHT 2002 IFIS
ΑN
     1972(01):P0022
                      FSTA
     Studies on the microbiology of sweetened condensed milk.
ΤI
ΑU
     Rao, V. J.; Ranganathan, B.
CS
     Nat. Dairy Res. Inst., Karnal, India
     Indian Journal of Dairy Science, (1970), 23 (4) 205-210, 24 ref.
SO
DT
     Journal
LΑ
     English
     Cans of sweetened condensed milk made (i) from whole milk (15 samples) or
AΒ
     (ii) from skim-milk (19 samples), were incubated at 37.degree.C for 7 days
     prior to microbiological examination. Total bacterial counts ranged from
     50 to 2700/g (average 168/g) in (i) and from 630 to 2.29 million/g
     (average 54 000/g) in (ii). Yeasts were found in 3 of (i) and 16 of (ii)
     samples at levels of 5-15 and 5-360/g respectively, the predominant spp.
     being Trichosporon, Saccharomyces and Candida. Moulds
     were found in 10 of (i) and all 19 of (ii) samples at levels of .ltoreq.40
     and .ltoreq.100/g respectively and comprised 56% Penicillium, 18.67%
     Mucor, 14.6% Cladosporium and 10.8% Aspergillus spp. The main bacterial
     contaminants were Micrococcus caseolyticus (22%), Bacillus
     subtilis (21%) and B. cereus (12%). Studies on samples of sweetened
     condensed milk held at 22 and 37.degree.C revealed that the microbial
     count increased gradually during the 1st wk and declined steadily
     thereafter.
     P (Milk and Dairy Products)
CC
CT
     ASPERGILLUS; BACILLUS; BACTERIA; CANDIDA; FUNGI; MICROBIOLOGY;
     MILK; MUCOR; PENICILLIUM; SACCHAROMYCES; CASEOLYTICUS;
     CLADOSPORIUM; CONDENSED MILK; MICROCOCCUS; MILK (BACTERIOLOGY);
     SWEETENED; TRICHOSPORON; ASPERGILLUS; BACILLUS; CANDIDA;
     CLADOSPORIUM; MICROBIOLOGY; MICROCOCCUS; MUCOR;
     PENICILLIUM ; SACCHAROMYCES ;
                                     TRICHOSPORON
L7
      ANSWER 6 OF 6 FROSTI COPYRIGHT 2002 LFRA
ΑN
      65464
             FROSTI
      The bacterial content of creamed milk.
TI
      Abo-Elnaga I.G.; Metwally N.H.; El-Mansy E.M.M.
ΑU
SO
      Archiv fur Lebensmittelhygiene, 1981, 32 (1), 19-21 (8 ref.)
DT
      Journal
LA
      English
SL
      English; German
CT
      BACILLUS; BACILLUS SUBTILIS; BACTERIA; COW MILK; COWS; CREAM; EGYPTIAN;
```

ESCHERICHIA; ESCHERICHIA COLI; FRESIAN; MICROCOCCUS;

MICROORGANISMS; MILK; NON FAT; OCCURRENCE; QUANTITY; RAW; RAW MILK;

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SACCHAROMYCES; SKIMMED MILK; STREPTOCOCCUS; YEASTS
DED
      10 Nov 1981
=> s ll or dairy
        141664 L1 OR DAIRY
=> d his
     (FILE 'HOME' ENTERED AT 06:53:50 ON 08 FEB 2002)
     FILE 'FSTA, FROSTI' ENTERED AT 06:54:01 ON 08 FEB 2002
L1
         110378 S MILK OR MILK PRODUCT#
          13077 S CANDIDA OR DEBARYOMYCES OR SACCHAROMYCES OR ZYGOSACCHAROMYCES
L2
           2852 S MICROCOCCUS OR ARTHROBACTER OR CORYNEBACTERIUM
1.3
            654 S L1 AND L2
T.4
          48454 S L1/TI
L5
            212 S L5 AND L2
L6
              6 S L5 AND L2 AND L3
L7
         141664 S L1 OR DAIRY
1.8
=> s 18 and 12 and 13
            25 L8 AND L2 AND L3
=> d 1-25 all
L9
     ANSWER 1 OF 25 FSTA COPYRIGHT 2002 IFIS
     2001(12):P1901
ΑN
                      FSTA
     The surface flora of bacterial smear-ripened cheeses from cow's and goat's
ΤI
AU
     Bockelmann, W.; Hoppe-Seyler, T.
CS
     Postfach 6069, 24121 Kiel, Germany. Fax +49-431-6092306. E-mail
     bockelmann(a)bafm.de
     International Dairy Journal, (2001), 11 (4-7) 307-314, 21 ref.
SO
     ISSN: 0958-6946
DT
     Journal
     English
LΑ
     Microbiological quality of 3 bacterial smear-ripened cheeses (Tilsit
AΒ
     cheese, Chaumes cheese and a semi-hard goats' cheese) is reported. Model
     cheese systems were then used to study interactions of the predominant
     strains identified and their effect on microbial growth, and cheese aroma
     compound and pigment production were investigated in order to formulate a
     defined starter culture. Debaryomyces hansenii was the predominant yeast in all stages of ripening in all cheeses. 75-95% of
     bacteria were coryneform bacteria. Brevibacterium linens was found at
            Yellow-pigmented coryneform isolates (1-30%) were identified as
     0-15%.
     Arthrobacter nicotianae. Non-pathogenic staphylococci (mainly
     Staphylococcus equorum) comprised 5-15% of the total flora. The
     successful use of a defined 5-strain starter (D. hansenii, B. linens, A.
     nicotianae, Corynebacterium ammoniagenes and S. sciuri) for
     Tilsit cheese ripening was also demonstrated.
CC
     P (Milk and Dairy Products)
CT
     CHEESE VARIETIES; CHEESEMAKING; MICROBIOLOGICAL QUALITY; STARTERS;
     MODELLING; SMEAR CHEESE
L9
     ANSWER 2 OF 25 FSTA COPYRIGHT 2002 IFIS
AN
     2001(04):P0702
                     FSTA
TI
     Quantification and identification of microorganisms from the surface of
```

Hoppe-Seyler, T.; Jaeger, B.; Bockelmann, W.; Heller, K. J.

Inst. of Microbiol., Fed. Dairy Res. Cent., PO Box 60 69, D-24121 Kiel,

smear cheeses.

Germany

ΑU

CS

SO Kieler Milchwirtschaftliche Forschungsberichte, (2000), 52 (4) 294-305, 21 ref.

ISSN: 0023-1347

- DT Journal
- LA English
- SL French; German
- Influence of 2 sampling methods and different growth media on cell counts AB of microorganisms growing on red smear cheese was investigated. Tilsit cheese was smeared with a defined starter (Debaryomyces hansenii, Brevibacterium linens, Arthrobacter nicotianae, Corynebacterium ammoniagenes and Staphylococcus equorum) and sampled by either cutting off thin slices of 30-35 cm.sup.2 with subsequent homogenization in a Stomacher, or by rubbing off 1 cm.sup.2 of surface smear using a cotton wool pad. The 1st (slicing) method gave 50% of the surface cell counts obtained by the 2nd (cotton wool) method. Selectivity was similar for both methods. The 1st method was recommended for quantification, as the larger area analysed provides a more representative picture of the cell counts of the whole cheese. Growth medium also influenced total cell counts of cheese surface bacteria, with milk agar (plate count agar + 2% milk powder) giving higher cell counts than modified plate count agar (plate count agar + 0.1% milk powder, 1% casein hydrolysate, 1% brain heart infusion Plating on modified milk agar (milk agar +casein hydrolysate + BHI + vitamins) was optimum in terms of revealing different colony types on the basis of pigmentation. Use of biochemical identification kits for classification of smear bacteria, and use of selective growth media for detection of contaminating enterococci, pseudomonads, enterobacteria and fungi are also discussed.
- CC P (Milk and Dairy Products)
- CT BACTERIA; CHEESE VARIETIES; MICROBIOLOGICAL TECHNIQUES; SAMPLING; SMEAR CHEESE; TILSIT CHEESE
- L9 ANSWER 3 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1998(06):P1000 FSTA
- TI Microbiological profile of kulfi.
- AU Vibha Kumari; Sherikar, A. A.; Sharmila Majee
- CS Dep. of Microbiol., Mumbai Vet. Coll., Parel, Mumbai 400 012, India
- SO Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases, (1997), 18 (1) 94-96, 6 ref.
- DT Journal
- LA English
- AB Microbiological quality of 36 samples of kulfi (12 each from roadside and shop vendors, and brand names), collected from various locations across Mumbai, India, was investigated. Amongst all the kulfi samples the following microbial contaminants were identified: Gram-positive microorganisms (Staphylococcus spp., Streptococcus spp., Bacillus spp. and Micrococcus luteus); Gram-negative microorganisms (Klebsiella aerogenes, Enterobacter aerogenes, Proteus spp., Escherichia coli and Shigella spp.); fungi (Aspergillus spp., Penicillium spp., Mucor spp., Rhizopus spp., Absidia spp., Saccharomyces spp. and Rhodotorula spp.). Results are tabulated and indicate that all products could be improved in terms of their microbiological quality, although products sold at the roadside were of the worst quality. It is suggested that hygienic processing, handling, packaging and sealing of retail kulfi should be regulated, as should the raw materials used in its preparation.
- CC P (Milk and Dairy Products)
- CT DAIRY PRODUCTS; FOOD SAFETY DAIRY PRODUCTS; MICROBIOLOGICAL QUALITY; INDIA; KULFI
- L9 ANSWER 4 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1998(02):P0388 FSTA
- TI The microflora of Tilsit cheese. II. Development of a surface smear

starter culture.

- AU Bockelmann, W.; Hoppe-Seyler, T.; Krusch, U.; Hoffmann, W.; Heller, K. J.
- CS Fed. Dairy Res. Cent., Inst. of Microbiol., Postfach 6069, D-24121 Kiel, Germany
- SO Nahrung, (1997), 41 (4) 213-218, 41 ref. ISSN: 0027-769X
- DT Journal
- LA English
- Single strains of bacteria isolated from the surface of commercial Tilsit AΒ cheeses were screened for their ability to produce typical Tilsit flavour and colour and for fast growth in milk. 3 milk based model systems were developed for screening. Shake liquid milk cultures were suitable to determine production of colour and volatile flavour compounds. Milk agar plates were used to study synergistic and antagonistic effects between isolates. With mini cheeses in centrifuge bottles, cheese conditions were stimulated under sterile conditions. Volatile aroma production and pigmentation of the surface flora were studied with this system. Additional growth studies in other growth media with various combinations of strains revealed some of the possible roles of surface bacteria. Brevibacterium linens promoted growth of yellow coryneform bacteria. A pigmented Arthrobacter strain. was responsible for the production of a yellow coloured water soluble pigment, a precursor for the typical red-brown colour of Tilsit cheese. In mixed culture with pigmented or non-pigmented strains of B. linens, the yellow colour turned into red-brown. A proteolytic Staphylococcus strain seemed to be important for the initiation of surface starter growth. Staphylococci showed fast growth at pH 5.5 and below. They also promoted growth of the yellow Arthrobacter strain. Based on these results, a defined surface starter was developed consisting of 5 strains. The yeast Debaryomyces hansenii was used for deacidification of the cheese rind. A combination of a non-pigmented, proteolytic B. linens, a yellow Arthrobacter strain, a cream-coloured coryneform bacterium, and a proteolytic Staphylococcus sciuri were used for cheese ripening. Experimental cheeses were produced on a 10 kg scale. The defined starter grew fast on the cheese surfaces, and produced the typical flavour and colour of Tilsit cheese. [See also 1998-Pj211.]
- CC P (Milk and Dairy Products)
- CT CHEESE VARIETIES; RIPENING; STARTERS; TILSIT CHEESE
- L9 ANSWER 5 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1998(02):P0211 FSTA
- TI The microflora of Tilsit cheese. I. Variability of the smear flora.
- AU Bockelmann, W.; Krusch, U.; Engel, .G; Klijn, N.; Smit, G.; Heller, K. J.
- CS Fed. Dairy Res. Cent., Inst. of Microbiol., Postfach 6069, D-24121 Kiel, Germany
- SO Nahrung, (1997), 41 (4) 208-212, 30 ref. ISSN: 0027-769X
- DT Journal
- LA English
- Debaryomyces hansenii was found to be the predominant yeast in all stages of ripening. 75-95% of the bacterial flora consisted of coryneform bacteria. Several of the isolates were identified as Arthrobacter.

 Brevibacterium linens was found at 0-15%. In all cheeses tested, 5-15% of total cell counts were made up by staphylococci. They were determined as not being Staphylococcus aureus or other pathogenic staphylococci since all isolates were negative with respect to thermonuclease, clumping, coagulase, and haemagglutination. Most of the isolates were haemolysis negative. By genetical analysis, several selected isolates were classified as Staphylococcus equorum, one isolate as S. sciuri. Contamination of cheeses with Fusarium indicated the influence of the smearing strategy on spreading of undesirable microorganisms. In plant A,

old cheeses were smeared first, then young cheeses were smeared with the same smear liquid. Fusarium contamination could be detected in all stages of ripening. In plant B, young cheeses (0-3 wk) were smeared with a commercial surface starter cocktail. In all cheeses of this age, problems with Penicillium-contaminations were observed. Older cheeses (>3 wk) were smeared according to the strategy applied in plant A. Consequently Fusarium were detected in cheeses of 4-8 wk of age.

- CC P (Milk and Dairy Products)
- CT CHEESE VARIETIES; FOOD SAFETY DAIRY PRODUCTS; MICROORGANISMS; TILSIT CHEESE
- L9 ANSWER 6 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1997(11):P0111 FSTA
- TI Identification of yeasts and coryneform bacteria from the surface microflora of brick cheeses.
- AU Valdes-Stauber, N.; Scherer, S.; Seiler, H.
- CS Correspondence (Reprint) address, H. Seiler, Dairy & Food Res. Cent. Weihenstephan, Inst. of Microbiol., Tech. Univ. Muenchen, D-85354 Freising, Germany. Tel. +49 8161 713519. Fax +49 8161 714492
- SO International Journal of Food Microbiology, (1997), 34 (2) 115-129, 35 ref.
 ISSN: 0168-1605
- DT Journal
- LA English
- AB Coryneform bacteria and yeasts of 21 brick cheeses [including Limburger, Romadur, Weinkaese and Harzer] from 6 German dairies, produced by using undefined ripening cultures, were identified. Arthrobacter nicotianae, Brevibacterium linens, Corynebacterium ammoniagenes, Corynebacterium variabilis and Rhodococcus fascians were found in significant numbers. Out of 148 coryneform isolates, 36 could not be identified at the species level. With the exception of a large rennet cheese, the coryneform microflora of rennet and acid cured cheeses was similar, but the cheese had clearly different yeast populations. Debaryomyces hansenii and Galactomyces geotrichum prevailed in rennet cheeses while Kluyveromyces marxianus and Pichia membranaefaciens were the main species found in acid cured cheese. The dominance of Yarrowia lipolytica probably indicates an improper yeast population, resulting in poor cheese quality. Some of the species identified are potential candidates for designing a defined ripening culture for rennet red smear cheese.
- .CC P (Milk and Dairy Products)
- CT BACTERIA; CHEESE; DAIRY PRODUCTS; FOOD SAFETY; FOOD SAFETY DAIRY PRODUCTS; MICROORGANISMS; YEASTS; GERMANY
- L9 ANSWER 7 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1996(01):A0032 FSTA
- TI Principles of separating micro-organisms from suspensions using ultrasound.
- AU Miles, C. A.; Morley, M. J.; Hudson, W. R.; Mackey, B. M.
- CS Muscle & Collagen Res. Group, Dep. of Clinical Vet. Sci., Univ. of Bristol, Bristol BS18 7DY, UK
- SO Journal of Applied Bacteriology, (1995), 78 (1) 47-54, 14 ref. ISSN: 0021-8847
- DT Journal
- LA English
- AB Threshold amplitudes required to band latex spheres of bacterial cell size 0.5-5 .mu.m diam. in a stationary ultrasonic field were measured in the frequency range 1-3 MHz. Results were used to establish conditions suitable for the separation of vegetative microbial cells from suspensions of full cream milk in distilled water. Microorganisms examined were Saccharomyces cerevisiae, Bacillus megaterium, Listeria innocua, Lactococcus lactis, Escherichia coli and Micrococcus

luteus. Use of ultrasonic methods to separate E. coli suspended in a solution of milk was investigated. A method was developed that was capable of separating and concentrating cream and bacteria at opposite ends of a test tube. Results suggest that ultrasonic techniques may be developed to separate bacteria from food and to concentrate them. Theoretical equations for banding thresholds of particles of low size are discussed.

- CC A (Food Sciences)
- CT BACTERIA; DAIRY PRODUCTS; ESCHERICHIA; FOOD SAFETY DAIRY PRODUCTS; MICROORGANISMS; MILK; PROCESSING; SEPARATION; ULTRASOUND
- L9 ANSWER 8 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1994.(10):A0062 FSTA
- TI Inorganic pyrophosphatase-based detection systems. II. Detection and quantification of cell lysis and cell-lysing activity.
- AU Nyren, P.; Edwin, V.
- CS Dep. of Biochem. & Biotech., Royal Inst. of Tech., S-100 44 Stockholm,
- SO Analytical Biochemistry, (1994), 220 (1) 46-52, 21 ref. ISSN: 0003-2697
- DT Journal
- LA English
- A technique to detect and quantify cell lysis and cell-lysing activity is ΑB described. The method is based on a sensitive enzymic luminometric inorganic pyrophosphate detection assay (ELIDA), which measures the levels present of inorganic pyrophosphatase, an enzyme constitutively expressed in all cells. The fraction of lysed cells in a sample could be determined by assessing activity in the absence and presence of total lysing activity. This method was used to determine the effect of storage on lysis of Micrococcus luteus and Saccharomyces cerevisiae, and also to detect the lytic compounds Triton X100 (a surfactant) and lysozyme via their lytic activity towards M. luteus. Sensitivity of the assay was dependent on a variety of factors, including the amount of cells used, incubation time, and incubation temp. It is suggested that this assay could be suitable for large scale analysis of lytic behaviour, and a wide variety of possible applications are discussed. Applications suggested for the food and dairy industry include: viable cell determination in brewing and winemaking; and detection of lysozyme in foods. [See preceding abstr. for part I.]
- CC A (Food Sciences)
- CT ANALYTICAL TECHNIQUES; ENZYMES; FOOD SAFETY; HYDROLASES; MICROORGANISMS; FOODS; PYROPHOSPHATASES
- L9 ANSWER 9 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1993(09):P0104 FSTA
- TI Microflora present in kefir grains of the Galician region (North-West of Spain).
- AU Angulo, L.; Lopez, E.; Lema, C.
- CS Microbiol., Fac. de Ciencias, Univ. de Vigo, Apartado 874, 36200 Vigo, Spain
- SO Journal of Dairy Research, (1993), 60 (2) 263-267, 10 ref. ISSN: 0022-0299
- DT Journal
- LA English
- AB Microflora present in kefir grains (a symbiotic association of yeasts and lactic acid bacteria embedded in a polysaccharide matrix (kefiran)) used in the fermentation of milk was investigated. 8 kefir grains were obtained from different dairies in Galicia, Spain; grains were propagated by twice- or thrice-weekly transfer into pasteurized cows' milk. From the interior of kefir grains, 49 yeast strains corresponding to 5 genera were isolated; Torulaspora delbrueckii and

Saccharomyces cerevisiae were 13.3 and 10.6%, respectively, of the total yeast spp. isolated. 46 strains of lactic acid bacteria representing 4 genera were isolated; 9 homofermentative (25.7%) and heterofermentative (74.3%) lactobacilli spp. were identified. Lactococcus lactis subsp. lactis (6.2%) was isolated from most kefir grains. Also, 18 bacterial strains, considered to be contaminating, representing 5 genera were isolated, including spp. of the Pediococcus, Micrococcus, Bacillus and Acetobacter genera.

- CC P (Milk and Dairy Products)
- CT FERMENTED DAIRY PRODUCTS; FERMENTED MILK; GRAIN; MICROORGANISMS; KEFIR; MICROFLORA
- L9 ANSWER 10 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1993(02):P0055 FSTA
- TI Scanning electron and light microscopic study of microbial succession on Bethlehem St. Nectaire cheese.
- AU Marcellino, N.; Benson, D. R.
- CS Correspondence (Reprint) address, D. R. Benson, Dep. of Molecular & Cell Biol., U-44, Univ. of Connecticut, Storrs, CT 06269-3044, USA
- SO Applied and Environmental Microbiology, (1992), 58 (11) 3448-3454, 19 ref. ISSN: 0099-2240
- DT Journal
- LA English
- St. Nectaire cheese is a semisoft cheese of French origin that, along with AΒ Brie and Camembert cheeses, belongs to the class of surface ripened cheese. Surface microorganisms on the cheese rind during ripening impart a distinctive aroma and flavour to this class of cheese. The sequential appearance of microorganisms on the cheese rind and in the curd was followed over a 60-day ripening period. SEM was used to visualize the development of surface fungi and bacteria. Light microscopy of stained paraffin sections was used to study cross sections through the rind. pH and development of bacterial and yeast populations in the curd and rind were also monitored. The earliest stage of ripening (0-2 days) was dominated by the lactic acid bacterium Streptococcus cremoris and multilateral budding yeasts, primarily Debaryomyces and Torulopsis species. Geotrichum candidum followed closely, and then zygomycetes of the genus Mucor developed at day 4 of ripening. At day 20, the deuteromycete Trichothecium roseum appeared. From day 20 until the end of the ripening process, coryneforms of the genera Brevibacterium and Arthrobacter were seen near the surface of the cheese rind among fungal hyphae and yeast cells.
- CC P (Milk and Dairy Products)
- CT CHEESE; CHEESE VARIETIES; DAIRY PRODUCTS; MICROBIOLOGICAL QUALITY; RIPENING
- L9 ANSWER 11 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1991(04):V0131 FSTA
- TI [Process for preparation of Tilsit and Tilsit-style cheese.] Verfahren zur Herstellung von Tilsiter und Kaese nach Tilsiterart.
- IN Schmidt, H.; Philipp, S.
- PA Grace GmbH; Grace GmbH, D-2000 Norderstedt, FRG
- SO German Federal Republic Patent Application, (1990)
- PI DE 3905499 A
- PRAI DE @@@@-3905499 19890220
- DT Patent
- LA German
- AB A process for manufacture of Tilsit or Tilsit-type cheese is described, in which starters (Lactobacillus helveticus, L. delbrueckii, Brevibacterium linens, B. casei, Arthrobacter spp., Geotrichum candidum or Debaryomyces hansenii) or combinations of these microorganisms are added to the cheese milk. The cheeses are packaged under mild vacuum in film of defined permeability, for optimization of maturation.

- CC V (Patents)
- CT CHEESE VARIETIES; CHEESEMAKING; **DAIRY PRODUCTS**; MICROORGANISMS; PATENTS; STARTERS; CHEESES SPECIFIC; TILSIT CHEESE
- L9 ANSWER 12 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1985(12):P0084 FSTA
- TI Preparation and antibacterial activity of different acidophilus milk foods.
- AU Gandhi, D. N.; Nambudripad, V. K. N.
- CS Nat. Dairy Res. Inst., Karnal 132001, India
- SO Indian Journal of Dairy Science, (1980), 33 (4) 484-489, 10 ref.
- DT Journal
- LA English
- Acidophilus sour milk (ASM) was prepared using 2% Lactobacillus AB acidophilus starter (4 strains tested), acidophilus yoghurt (AY) was prepared using 1:1 L. acidophilus R/Streptococcus thermophilus H starter, and acidophilus yeast \mbox{milk} (AYM) was prepared using 2% each of L. acidophilus R and yeast (Saccharomyces fragilis R or Sacc. cerevisiae UCD-522). The ASM made with L. acidophilus R contained 1.5% lactic acid, and showed the greatest inhibitory activity against Escherichia coli, Bacillus subtilis, Micrococcus flavus and Staphylococcus aureus, optimum temp. for antibacterial activity being 40.degree. C. Unflavoured AY showed inhibitory activity against M. flavus only, whilst AY flavoured with tomato juice inhibited E. coli, M. flavus, Staph. aureus and Salmonella weltevreden. The AYM prepared with Sacc. fragilis had a lower alcohol content than that prepared with Sacc. cerevisiae. Sacc. fragilis did not contribute to the inhibitory activity observed against 4 test organisms. Order of acceptability of the acidophilus products was AY + fruit > AYM > flavoured AY > AY > ASM.
- CC P (Milk and Dairy Products)
- CT BACTERIA; FERMENTED MILK; INHIBITION; MILK; STARTERS; ACIDOPHILUS MILK; ANTIBACTERIAL ACTIVITY; CULTURED MILKS
- L9 ANSWER 13 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1982(07):H1094 FSTA
- TI Quality control in coconut milk processing. II. Microbial contaminants.
- AU Mabesa, R. C.; Rosario, R. R. del
- CS Dep. of Food Sci. & Tech., UP at Los Banos, College, Laguna, Philippines
- SO Philippine Agriculturist, (1979), 62 (3) 167-175, 14 ref.
- DT Journal
- LA English
- The study was conducted to determine the types of organisms that may be introduced by the raw material, processing equipment and other utensils used in the processing of coconut milk. In addition, the influence of sanitization of the microflora was studied. A large number of bacteria, moulds, yeasts, as well as coliform organisms were present in coconut milk. The use of sanitizing agents resulted in a significant reduction of the types of organisms present in the cream. Some of the persistent bacteria were members of the following genera: Bacillus, Achromobacter, Microbacterium, Micrococcus, Brevibacterium and some coliform organism. Among the genera of yeasts and moulds found in the product were Penicillium, Saccharomyces, Geotrichum, Mucor and Fusarium. Organisms isolated from the different materials used for processing were usually found in the final product. These findings showed the importance of plant sanitation and personal hygiene in the processing of coconut milk. [See FSTA (1977) 9 12J1945 for part I.]
- CC H (Alcoholic and Non-Alcoholic Beverages)
- CT BEVERAGES; COCONUTS; CONTAMINATION; MICROORGANISMS; COCONUT MILK ; MICROBIAL CONTAMINATION
- L9 ANSWER 14 OF 25 FSTA COPYRIGHT 2002 IFIS

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ΑN
     1982(01):P0081
                      FSTA
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- ΤI The bacterial content of creamed milk.
- Abo-Elnaga, G.; Metwally, N. H.; El-Mansy, El-M. M. AU
- CS Fac. of Agric., Assiut Univ., Assiut, Egypt
- Archiv fuer Lebensmittelhygiene, (1981), 32 (1) 19-21, 8 ref. SO
- DTJournal
- LΑ English
- SL German
- Samples of cows' bulk milk were kept for 24 h at 4.degree. and AB 15.degree. C resp., and the cream layer and partially skimmed milk (PSM) examined bacteriologically. The number of contaminating bacteria in the PSM decreased to 0.4-23% of that in the whole milk. The predominant bacteria in the cream were streptococci, micrococci and Gram-negative bacteria. Streptomyces were present in the raw milk but failed to rise with the fat globules and remained in the PSM. Creaming reduced the numbers of Escherichia coli, Streptococcus lactis, Saccharomyces spp., Bacillus subtilis and Micrococcus spp. in the PSM to 0.7, 1.0, 2.3, 6.5 and 12.5% resp. when these organisms were added separately to aseptically drawn milk.
- CC P (Milk and Dairy Products)
- BACTERIA; CREAM; FATS MILK; MILK; MILK FATS; CTSKIM MILK; SKIM-MILK
- ANSWER 15 OF 25 FSTA COPYRIGHT 2002 IFIS L9
- 1973(01):P0072 AN **FSTA**
- TI Microbiological and chemical studies on zabady.
- ΑU El-Sadek, M. G.; Naguib, Kh.; Negm, A.
- CS Dept. of Food Sci., Fac. of Agric., Ein-Shams Univ., Cairo, United Arab Republic
- Milchwissenschaft, (1972), 27 (9) 570-572, 29 ref. SO
- DT Journal
- LΑ English
- SL German
- AΒ 50 random samples of zabady from Cairo market had an average titratable acidity of 1.01% (0.6-1.54%) and pH of 3.7 (3-4.4). Average composition was 3.62% (1.05-6.8%) fat, 4.17% (3.11-5.6%) total protein, 14.32% (10.64-18.57%) TS, 2.92% (1.2-4.8%) lactose and 0.65% (0.39-1.37%) ash. Total microbial counts on tryptone/yeast extract/glucose/lactose agar averaged 1182 million/ml, the predominant species being streptococci (mainly Streptoccoccus thermophilus) followed by micrococci and microbacteria. Lactobacillus counts on Rogosa medium averaged 696 million/ml with Lactobacillus bulgaricus predominating. Yeast + mould counts on malt extract agar averaged 688 000/ml and were mainly Candida spp.; yeasts were detected in 84% of samples. Coliform counts by the MPN technique ranged from 0 to 2.4 million/ml with an average of 152 000/ml, these organisms being detected in 58% of samples. CC
- P (Milk and Dairy Products)
- ACIDITY; BACTERIA; CANDIDA; COLIFORMS; FERMENTED MILK; FUNGI; LACTOBACILLUS; LACTOSE; MICROORGANISMS; MINERALS; PH; SOLIDS; STREPTOCOCCUS; YEASTS; ASH; CORYNEBACTERICEAE; CULTURED MILKS; FAT; LACTOBACILLI; MICROBACTERIA; MICROBIAL COUNT; MICROCOCCI; MICROCOCCUS; MILK (FATS); MILK (PROTEINS); MOULDS; PROTEIN; STREPTOCOCCI; TS; ZABADY
- L9 ANSWER 16 OF 25 FSTA COPYRIGHT 2002 IFIS
- 1972(10):P1500 AN
- ΤI [Chemical and microbiological study of ripening of Gorgonzola cheese.]
- ΑU Ottogalli, G.; Resmini, P.; Bianchi, B.; Galli, A.; Rondinini, G.; Salvadori, P.; Saracchi, S.; Volonterio, G.
- Istituto di Microbiologia Agraria, Univ., Milan, Italy CS
- Latte, (1971), 45 (11) 776-789, 36 ref. SO
- DT Journal

- LA Italian
- SL English
- AB Gorgonzola cheese was made by the normal method from milk pasteurized at 72.degree.C for 15-20 sec, using Streptococcus thermophilus + Lactobacillus bulgaricus starter and inoculation with Penicillium roqueforti var. weidemannii. The cheese was examined before and after the salting at 20-25.degree.C, and at various times during ripening at 5.degree.C. The chemical results demonstrate a marked increase in free amino acids, NH.sub.3 and methyl ketones after the 45th day of the 2 months ripening. The bacteriological results demonstrate the development of lactic acid bacteria in the milk, thermophilic bacteria in the curd during draining and salting in the warm room, and mesophilic lactic acid bacteria during ripening, following by the development of the Penicillium following inoculation. The rind contains Candida and Torula yeasts as well as yellowish micrococci and reddish Arthrobacter.
- CC P (Milk and Dairy Products)
- CT AMINO ACIDS; AMMONIA; BACTERIA; CANDIDA; CHEESE; CHEESE
 VARIETIES; KETONES; MICROORGANISMS; PENICILLIUM; RIPENING; YEASTS;
 ARTHROBACTER; CORYNEBACTERIACEAE; GORGONZOLA; GORGONZOLA CHEESE;
 LACTIC ACID BACTERIA; LACTOBACILLACEAE; MESOPHILES; METHYL; NH3; TORULA;
 AMINO ACIDS; CANDIDA; CHEESE; KETONES; PENICILLIUM;
 RIPENING
- L9 ANSWER 17 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1972(01):P0022 FSTA
- TI Studies on the microbiology of sweetened condensed milk.
- AU Rao, V. J.; Ranganathan, B.
- CS Nat. Dairy Res. Inst., Karnal, India
- SO Indian Journal of Dairy Science, (1970), 23 (4) 205-210, 24 ref.
- DT Journal
- LA English
- AΒ Cans of sweetened condensed milk made (i) from whole milk (15 samples) or (ii) from skim-milk (19 samples), were incubated at 37.degree.C for 7 days prior to microbiological examination. Total bacterial counts ranged from 50 to 2700/g (average 168/g) in (i) and from 630 to 2.29 million/g (average 54 000/g) in (ii). Yeasts were found in 3 of (i) and 16 of (ii) samples at levels of 5-15 and 5-360/g respectively, the predominant spp. being Trichosporon, Saccharomyces and Candida. Moulds were found in 10 of (i) and all 19 of (ii) samples at levels of .ltoreq.40 and .ltoreq.100/g respectively and comprised 56% Penicillium, 18.67% Mucor, 14.6% Cladosporium and 10.8% Aspergillus spp. The main bacterial contaminants were Micrococcus caseolyticus (22%), Bacillus subtilis (21%) and B. cereus (12%). Studies on samples of sweetened condensed milk held at 22 and 37.degree.C revealed that the microbial count increased gradually during the 1st wk and declined steadily thereafter.
- CC P (Milk and Dairy Products)
- CT ASPERGILLUS; BACILLUS; BACTERIA; CANDIDA; FUNGI; MICROBIOLOGY;
 MILK; MUCOR; PENICILLIUM; SACCHAROMYCES; CASEOLYTICUS;
 CLADOSPORIUM; CONDENSED MILK; MICROCOCCUS; MILK
 (BACTERIOLOGY); SWEETENED; TRICHOSPORON; ASPERGILLUS; BACILLUS;
 CANDIDA; CLADOSPORIUM; MICROBIOLOGY; MICROCOCCUS;
 MUCOR; PENICILLIUM; SACCHAROMYCES; TRICHOSPORON
- L9 ANSWER 18 OF 25 FSTA COPYRIGHT 2002 IFIS
- AN 1970(07):P0855 FSTA
- TI [Study of microbial flora in cheese of Saint-Paulin type. III. Its proteolytic activity.]
- AU Ducastelle, A.; Lenoir, J.
- CS Lab. de Technologie, Ecole Nat. Superieure Agronomique, Grignon (78), France

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Lait, (1969), 49 (489/490) 615-36, 18 ref.
so
DΤ
    Journal
LΑ
    French
SL
    English
    Intracellular proteases were obtained from 4 strains of Streptococcus
AΒ
    lactis, 2 of Str. diacetilactis, 3 of Lactobacillus plantarum, 9 of
    micrococci, 2 of Saccharomyces and 1 of Candida, all
     isolated from Saint-Paulin cheeses during ripening. Optimum pH and temp.
     respectively, for activity of these enzymes on casein substrate were 6.3
    and 45.degree. for streptococci, 5.5 and 45.degree.C for lactobacilli, 7.5
    and 45.degree.C for micrococci, 6.3 and 55.degree.C for Candida,
    and 7.5 and 55.degree.C for Saccharomyces. Extracellular
    protease acitivty, with an optimum at pH 7.2 and 45.degree.C was observed
     in a micrococcal strain, but not in the streptococci or lactobacilli.
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of lactic streptococci. [See Lait (1965) 45 (448) 509-18 for part II.]
CC P (Milk and Dairy Products)
CT BACTERIA; CANDIDA; CHEESE; CHEESE VARIETIES; DECOMPOSITION;
LACTOBACILLUS; PH; PROTEINASES; PROTEINS; PROTEINS MILK;
SACCHAROMYCES; STREPTOCOCCUS; TEMPERATURE; DEGRADATION; MICROBIAL;
MICROCOCCI; MICROCOCCUS; MILK PROTEINS; PLANTARUM;

Extracellular protease systems of the 2 yeasts appeared to be identical to the intracellular systems. It is concluded that protein degradation in Saint-Paulin cheese is brought about mainly by the intracellular proteases

L9 ANSWER 19 OF 25 FROSTI COPYRIGHT 2002 LFRA AN 566834 FROSTI

PROTEASE; PROTEASES; SAINT-PAULIN CHEESE

- TI The growth, properties and interactions of yeasts and bacteria associated with the maturation of Camembert and blue-veined cheeses.
- AU Addis E.; Fleet G.H.; Cox J.M.; Kolak D.; Leung T.
- International Journal of Food Microbiology, 2001, (September 19), 69 (1-2), 25-36 (32 ref.)

 Published by: Elsevier Science Address: PO Box 211, 1000 AE Amsterdam,
 The Netherlands Telephone: +31 (20) 485 3757 Fax: +31 (20) 485 3432

 Email: nlinfo-f@elsevier.nl Web: www.elsevier.nl/locate/ijfoodmicro
 ISSN: 0168-1605
- DT Journal
- LA English
- SL English
- AΒ The production of mould-ripened cheeses, such as Camembert and blue-veined varieties, involves a maturation step that is characterized by the growth of a complex ecology of yeasts, bacteria, and fungi. Their interactions determine the final cheese quality and sensory properties. The growth profiles of species of yeasts and bacteria throughout the production of Camembert and blue-veined cheeses at several commercial producers in Australia were studied. Yeasts were prominent through maturation, growing to 100,000-1,000,000,000 per gram, with Debaryomyces hansenii predominating. Acinetobacter species were significant during the maturation of Camembert cheese, and grew to 1,000,000-100,000,000 cfu per gram, while fewer numbers of Staphylococcus and Micrococcus were also detected. Between 10,000,000 and 1,000,000,000 cfu per gram of unidentified lactic acid bacteria were present during maturation. Several of the strains of D. hansenii showed killer activity, but not against Yarrowia lipolytica. None of the yeasts were antagonistic against the endogenous bacteria, but some strains of D. hansenii enhanced the growth of Y. lipolytica and Saccharomyces xylosus. The production of proteinases, lipases, and the changes in curd pH and salt content during maturation, and their potential industrial applications are also discussed.
- SH DAIRY PRODUCTS
- CT BLUE CHEESE; CAMEMBERT CHEESE; CHEESE; DAIRY PRODUCTS;
 DEBARYOMYCES; DEBARYOMYCES HANSENII; GROWTH; KILLER

YEASTS; LIPOLYTIC ENZYMES; MICROORGANISMS; OCCURRENCE; PRODUCTION; PROTEOLYTIC ENZYMES; TYPES; YEASTS DED 30 Oct 2001 ANSWER 20 OF 25 FROSTI COPYRIGHT 2002 LFRA L9 FROSTI AN ΤI Study and prevention of Italian Stracchino cheese spoilage. Comi G.; Collovati S.; Croattini I.; Surmelj A.; Cocolin L. ΑU Industrie Alimentari, 2001, (July-August), 40 (405), 729-737 (7 ref.) SO Published by: Chiriotti Editori spa Address: PO Box 66, Viale Rimembranza 60, 10064 Pinerolo, Italy Telephone: +39 (121) 393127 Fax: +39 (121) 794480 Email: info@chiriottieditori.it Web: www.chiriottieditori.it ISSN: 0019-901X DTJournal LΑ Italian SL English; Italian AΒ Stracchino is an Italian soft cheese that is sometimes affected by surface discoloration associated with microbial spoilage. This paper reports on an investigation of the growth of spoilage microorganisms during Stracchino cheese production. The most widely observed species were Candida intermedia, Arthrobacter spp, Brevibacterium spp, and Sarcina spp. Microbial growth occurred on the surface of cheeses during the short ripening period. These microorganisms were derived from air, cheesemaking equipment, and drying rooms in the cheese factory. Improved hygiene reduced the incidence of spoilage. SH CONTAMINATION CHEESE; CHEESEMAKING; DAIRY PRODUCTS; DETERIORATION; GROWTH; CT HYGIENE; ITALIAN CHEESE; PRODUCTION; RIPENING; SOFT CHEESE; SPOILAGE; SPOILAGE MICROORGANISMS; STRACCHINO CHEESE DED 11 Sep 2001 L9 ANSWER 21 OF 25 FROSTI COPYRIGHT 2002 LFRA FROSTI AN TI The microflora of Tilsit cheese. Part 2. Development of a surface smear starter culture. ΑU Bockelmann W.; Toppe-Seyler T.; Krusch U.; Hoffmann W.; Heller K.J. SO Nahrung, 1997, (August), 41 (4), 213-218 (41 ref.) DT Journal LΑ English English SLAB Single strains of bacteria were isolated from the surface of Tilsit cheeses and screened for their ability to produce Tilsit flavour and colour. Three model systems were used for screening: liquid milk cultures, agar plate cultures, and mini cheeses. Using these results, a defined surface starter was developed. It consisted of a yeast (Debaryomyces hansenii), two strains of coryneform bacteria (Arthrobacter), and Brevibacterium linens and Staphylococcus sciuri. Using this surface starter, it was possible to produce cheeses with a typical Tilsit flavour and colour. SH DAIRY PRODUCTS CTBACTERIA; CHEESE; MICROBIOLOGY; SURFACE CULTURES; TILSIT CHEESE; YEAST DED 21 Oct 1997 L9 ANSWER 22 OF 25 FROSTI COPYRIGHT 2002 LFRA AN446695 FROSTI TI The microflora of Tilsit cheese. Part 1. Variability of the smear flora. ΑU Bockelmann W.; Krusch U.; Engel G.; Klijn N.; Smit G.; Heller K.J. Nahrung, 1997, (August), 41 (4), 208-212 (30 ref.) SO DT Journal LΑ English

- SL English
- The microflora of 25 Tilsit cheeses from two factories was analysed. In all cheeses, Debaryomyces hansenii was the predominant yeast in the first days of ripening. In both cheese plants, Fusarium moulds were important fungal contaminants. Penicillium commune was also present in some cheeses as a contaminant. Of the total bacterial cell counts, 75-95% consisted of smear bacteria (Brevibacterium linens, Arthrobacter, and other coryneform bacteria); 5-25% consisted of staphylococci. Low-salt cheeses had elevated Staphylococcus levels. Bacterial contaminants (pseudomonads, coliform bacteria) were found in all cheeses. Smearing of young cheeses with recycled smear liquid was a source of contamination.
- SH DAIRY PRODUCTS
- CT BACTERIA; CHEESE; CONTAMINATION; MICROBIOLOGY; TILSIT CHEESE; YEAST
- DED 21 Oct 1997
- L9 ANSWER 23 OF 25 FROSTI COPYRIGHT 2002 LFRA
- AN 310307 FROSTI
- TI Starter cultures.
- AU Mogensen G.
- Technology of reduced-additive foods., Published by: Blackie Publishers, Glasgow, 1993, 1-25 (many ref.)
 Smith J.
 ISBN: 0-7514-0002-5
- DT Book Article
- LA English
- The author discusses developments in starter technology and reviews ways in which starter cultures are used to replace traditional additives in foods such as dairy products, meat products and bread.

 Reference is made to the preservative effect of lactic acid bacteria, resulting from the production of antimicrobial agents such as lactic acid, acetic acid, propionic acid, diacetyl, carbon dioxide and bacteriocins. Consideration is given to the effect of starter cultures on the viscosity and texture of fermented milk products; the role of proteolytic enzymes from starter cultures in cheese manufacture; the use of Lactobacillus, Pediococcus, Staphylococcus, Micrococcus, Streptococcus, Debaryomyces and Penicillium as starter cultures for meat products; the role of microbial amylases and proteases in bread production; and the genetic stability of lactic acid bacteria.
- SH PROCESSING
- ADDITIVES; ANTIMICROBIALS; APPLICATIONS; BACTERIA; BACTERIAL ANTIMICROBIALS; BIOTECHNOLOGY; BREAD; DAIRY PRODUCTS;
 DAIRY SUBSTITUTES; FERMENTED; FERMENTED DAIRY PRODUCTS;
 FERMENTED MEAT PRODUCTS; LACTIC ACID; LACTIC ACID BACTERIA; MEAT PRODUCTS; MEAT SUBSTITUTES; PRESERVATION; PRESERVATIVES; PRODUCTION; STARTER BACTERIA; STARTERS; SUBSTITUTES; TYPE
- DED 13 May 1993
- L9 ANSWER 24 OF 25 FROSTI COPYRIGHT 2002 LFRA
- AN 304114 FROSTI
- TI Health aspects of 'bifidus' products: a review.
- AU Robinson R.K.; Samona A.
- SO International Journal of Food Sciences and Nutrition, 1992, 43 (3), 175-180 (48 ref.)
- DT Journal
- LA English
- There is good evidence for the potential health-promoting role of fermented dairy products containing Lactobacillus acidophilus and Bifidobacterium species. The reasons for the effectiveness of 'bifidus' products are reviewed. The defence reactions of the body to the presence of bifidobacteria, including immunological stimulation, are

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discussed. In addition, ingestion of the organisms may result in the
    production of L-lactic acid and acetic acid, which may suppress the
      growth of pathogens in the intestinal tract, such as strains of
      Salmonella, Staphylococcus, Escherichia, Proteus, Candida and
     Shigella. Antimicrobial activity against bacterial strains, including
     Micrococcus, Bacillus, and Pseudomonas, have been demonstrated.
     Additional roles for bifidobacteria, such as lowering the risk of colonic
      cancer, are discussed. It is concluded that there are advantages for
      normal, healthy consumers in consuming bifidus products.
     NUTRITION
SH
CT
     ACTIVITY; ANTIMICROBIAL ACTIVITY; ANTIMICROBIALS; BACTERIA; BACTERIAL
     ANTIMICROBIALS; BIFIDOBACTERIA; DAIRY PRODUCTS; DESTRUCTION;
      FERMENTED; FERMENTED DAIRY PRODUCTS; FERMENTED FOODS; HEALTH;
     IMPROVEMENT; INTESTINAL BACTERIA; INTESTINAL MICROORGANISMS; INTESTINES;
     MICROORGANISMS; PATHOGENIC; PATHOGENIC BACTERIA; PATHOGENIC
     MICROORGANISMS; REVIEW
     12 Feb 1993
DED
L9
     ANSWER 25 OF 25 FROSTI COPYRIGHT 2002 LFRA
     65464
              FROSTI
ΑN
ΤI
     The bacterial content of creamed milk.
ΑU
     Abo-Elnaga I.G.; Metwally N.H.; El-Mansy E.M.M.
SO
     Archiv fur Lebensmittelhygiene, 1981, 32 (1), 19-21 (8 ref.)
DT
     Journal
LΑ
     English
SL
     English; German
CT
     BACILLUS; BACILLUS SUBTILIS; BACTERIA; COW MILK; COWS; CREAM;
     EGYPTIAN; ESCHERICHIA; ESCHERICHIA COLI; FRESIAN; MICROCOCCUS;
     MICROORGANISMS; MILK; NON FAT; OCCURRENCE; QUANTITY; RAW; RAW
     MILK; SACCHAROMYCES; SKIMMED MILK;
     STREPTOCOCCUS; YEASTS
DED
     10 Nov 1981
=> s aerobic and anaerobic
T.10
         1766 AEROBIC AND ANAEROBIC
=> s 19 and 110
             0 L9 AND L10
L11
=> d his
     (FILE 'HOME' ENTERED AT 06:53:50 ON 08 FEB 2002)
    FILE 'FSTA, FROSTI' ENTERED AT 06:54:01 ON 08 FEB 2002
L1
         110378 S MILK OR MILK PRODUCT#
L2
         13077 S CANDIDA OR DEBARYOMYCES OR SACCHAROMYCES OR ZYGOSACCHAROMYCES
L3
           2852 S MICROCOCCUS OR ARTHROBACTER OR CORYNEBACTERIUM
            654 S L1 AND L2
L4
L5
          48454 S L1/TI
L6
            212 S L5 AND L2
L7
              6 S L5 AND L2 AND L3
L8
         141664 S L1 OR DAIRY
L9
             25 S L8 AND L2 AND L3
L10
           1766 S AEROBIC AND ANAEROBIC
L11
              0 S L9 AND L10
=> s 18 and 110 and 12
             4 L8 AND L10 AND L2
=> d 1-4 all
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- L12 ANSWER 1 OF 4 FSTA COPYRIGHT 2002 IFIS
- AN 1985(07):P0017 FSTA
- TI [Use of lactic acid by strains of **Debaryomyces** hansenii under conditions of **aerobic** and **anaerobic** growth at different temperatures.]
- AU Deiana, P.; Fatichenti, F.; Farris, G. A.
- CS Istituto di Microbiol., Agraria e Tecnica, Univ., Sassari, Italy
- SO Industria del Latte, (1984), 20 (2) 33-41, 16 ref.
- DT Journal
- LA Italian
- SL English
- AB 5 strains of **Debaryomyces** hansenii isolated from cheese were grown in a medium containing yeast extract at 7 g/l and lactic acid at 20 g/l. After 20 days under **aerobic** conditions, the strains had used up 90.5% of the lactic acid on average when grown at 10.degree. C and 81.5% when grown at 25.degree. C. Under **anaerobic** conditions 31.5% was used up in 60 days at the higher temp., although virtually none was used up at the lower temp. This suggested that D. hansenii could be employed to inhibit clostridia in hard cheeses by using up the lactates on which germination of the clostridial spores appears to depend. [See Journal of **Dairy** Research (1983) 50 (4) 449-457.]
- CC P (Milk and Dairy Products)
- CT LACTIC ACID; TEMPERATURE; YEASTS; AEROBIC; ANAEROBIC; ANAEROBIC DEBARYOMYCES HANSENII; DEBARYOMYCES; DEBARYOMYCES HANSENII; HANSENII; TEMP.
- L12 ANSWER 2 OF 4 FSTA COPYRIGHT 2002 IFIS
- AN 1982(04):P0567 FSTA
- TI [Bryndza (Brimsen) cheese made from ewes' milk.]
 Der Brinsekaese aus Schafmilch (Brimsen).
- AU Goerner, F.
- CS Inst. fuer Tech. Mikrobiol. & Biochem. der Slowakischen Tech. Hochschule, Janska 1, 880 37 Bratislava, Czechoslovakia
- SO Ernaehrung, (1980), 4 (4) 157-162, 24 ref.
- DT Journal
- LA German
- SL English
- AΒ This article discusses the history, technology and microbiology of Bryndza cheese, which is made in Slovakia from ewes' milk and is also called Liptovska' Bryndza. The initial cheesemaking process takes place on mountain pastures, where the fresh raw milk is coagulated with rennet and lumps of curd are lifted with a cheese cloth out of the whey and hung up for 3-4 days to drain off any remaining whey and raise the acidity to 92-97.degree. SH. This initial ripening process is anaerobic, the main organisms being Streptococcus lactis, S. faecalis Lactobacillus casei, L. lactis and L. plantarum. The final ripening, which takes place in cheese factories in the valleys, involves both an anaerobic process, with lactic acid bacteria, and an aerobic process in which a variety of organisms participate (the mould Geotrichum candidum; yeasts of the genera Torulopsis and Candida; and non-spore-forming Gram-positive rods). During this final ripening, which lasts 10--14 days, the lumps of cheese (weighing 5--12kg) are rubbed with salt to raise their DM content. They are then cut up, milled on porphyry rollers, mixed with salt and put into wooden casks or other suitable packaging. The min. DM content is about 50%, with about 50% fat in DM and 1-2% salt. Experiments have shown that the fermentation processes in the cheese inactivate pathogenic bacteria such as Salmonella gallinarum pollorum, S. typhimurium, Shiqella sonnei and Staphylococcus aureus. Production of Bryndza cheese is governed by Czechoslovak standards CSN 57 1138 and 57 1140 and is subject to strict control by public health services.
- CC P (Milk and Dairy Products)

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CHEESE VARIETIES; CHEESEMAKING; BRYNDZA; BRYNDZA CHEESE; CHEESES SPECIFIC
CT
L12 ANSWER 3 OF 4 FSTA COPYRIGHT 2002 IFIS
     1979(09):G0791
                    FSTA
AN
     [Method for the production of a protein concentrate.]
ΤI
     Adamek, L.; Forman, L.; Megl, M.; Mostecky, J.; Podhorsky, M.; Rosa, M.;
IN
     Stros, F.; Teply, M.
SO
     Czechoslovak Patent, (1978)
     AO 182171
PΙ
     Patent
DT
LΑ
     Czech
     Whey or skim-milk is fermented under controlled
AB
     anaerobic conditions at 30-45.degree. C and pH 4.0-6.0, with
     lactose hydrolysis to glucose and galactose. The protein fraction is then
     separated. The product obtained is supplemented by the necessary
     nitrogenous, phosphorous and other nutrients, inoculated with a culture of
     Saccharomyces or Candida and left to ferment under
     aerobic conditions. The product is then concentrated and dried.
CC
     G (Catering, Speciality and Multicomponent Foods)
CT
     BIOMASS; MILK; PATENTS; PROTEIN CONCENTRATES; PROTEINS
     MILK; WHEY; YEASTS; CZECHOSLOVAKIA; PATENT; SINGLE CELL PROTEINS;
     SKIM MILK; SKIM-MILK; YEASTS-SKIM-MILK;
     YEASTS-SKIM-MILK PROTEIN CONCENTRATES; YEASTS-WHEY; YEASTS-WHEY
     PROTEIN CONCENTRATES
      ANSWER 4 OF 4 FROSTI COPYRIGHT 2002 LFRA
L12
      177602
             FROSTI
ΑN
      Biomass from carbohydrates.
TI
ΑU
      Biotechnology, vol 3, edited by H.J.Rehm. Weinheim: Verlag Chemie, 3-41
SO
      (98 ref. En)., 1983
DT
      Book Article
      ACTIVE YEAST; AEROBIC; AMINO ACIDS; ANAEROBIC;
CT
      APPLICATIONS; BAKERS YEAST; BIOCHEMICAL PROPERTIES; BIOMASS;
      BIOTECHNOLOGY; CANDIDA; CARBOHYDRATES; COMPOSITION;
      DAIRY WASTES; DRY; FACTORS AFFECTING; FERMENTATION; GLUCOSE;
      GROWTH; INTERACTIONS; LIPIDS; LIQUORS; MECHANISMS; METABOLISM;
      MICROORGANISMS; MINERALS; MOLASSES; NUCLEIC ACIDS; PAPER INDUSTRY;
      PHYSIOLOGICAL PROPERTIES; PRODUCTION; PROPERTIES; PROTEINS;
      SACCHAROMYCES; SACCHAROMYCES CEREVISIAE; STARCH; SUGAR
      INDUSTRY WASTES; SULFITES; TRIGLYCERIDES; WASTES; WHEY; WINE; YEASTS
DED
      26 Apr 1988
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            10 L8 AND L10 AND L3
L13
=> d 1-10 all
L13 ANSWER 1 OF 10 FSTA COPYRIGHT 2002 IFIS
AN
     1996(09):A0041
                     FSTA
     Production and property of a bacteriocin-like inhibitor from Lactococcus
ΤI
     lactis DY11212.
ΑU
     Fang, T. J.; Yuann-Shiuann Yang
CS
     Graduate Inst. of Food Sci., Nat. Chung Hsing Univ., Taichung, Taiwan
     Food Science, Taiwan, (1995), 22 (5) 479-493, 33 ref.
SO
     ISSN: 0253-8997
DT
     Journal
LΑ
     English
SL
     Chinese
AΒ
     Characteristics of a bacteriocin-like inhibitor secreted by Lactococcus
     lactis were studied. The inhibitor produced by L. lactis DY11212 (isolated
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from acidophilus milk powder) was effective against various Gram-positive bacteria, including Bacillus, Enterococcus, Lactobacillus, Leuconostoc, Listeria, Micrococcus and Pediococcus. Gram-negative bacteria, including Citrobacter, Enterobacter, Erwinia, Escherichia, Pseudomonas and Salmonella, were weakly inhibited by this inhibitory substance. The bacteriocin-like inhibitor was heat resistant (100.degree.C, 30 min, pH 2-5), but was inactivated by .alpha.-amylase, .alpha.-chymotrypsin, ficin, lipolase, pepsin and pronase E (L. monocytogenes Scott A used as an indicator). The inhibitor was produced by L. lactis DY11212 at incubation temp. ranging from 15-30.degree.C. Max. antimicrobial activity was detected in TGE (trypticase glucose extract) medium after the culture had entered the early stationary phase of growth. Of various C-sources studied, glucose, maltose and trehalose supported highest bacteriocin production. Growth in TGE medium with an initial pH of 7 and incubated at temp. between 20 and 25.degree.C were optimal conditions for bacteriocin-like inhibitor production. Results of aerobic and anaerobic incubations showed that cultures in shaker flasks had the lowest antimicrobial activity. [From En summ.]

- CC A (Food Sciences)
 CT ANTIBIOTICS; BACTERIA; BACTERIOCINS; LACTOCOCCUS
- L13 ANSWER 2 OF 10 FSTA COPYRIGHT 2002 IFIS
- AN 1991(04):P0104 FSTA
- TI [Grated cheese retailed in some European markets.]
- AU Maggi, E.; Censi, A.; Bertani, P.
- SO Industrie Alimentari, (1989), 28 (276) 1079-1083, 3 ref. ISSN: 0019-901X
- DT Journal
- LA Italian
- General characteristics of grated cheese, usually sold under the AΒ commercial name Parmesan are described. A survey carried out on 26 samples of grated cheeses sold in different European countries is reported. Organoleptic and certain physicochemical and microbiological characteristics of the cheese samples were examined. Tables are provided of organoleptic properties, pH, moisture, lipid, protein and NaCl contents, and numbers of aerobic mesophiles, anaerobic mesophiles, coliforms, salmonellae, Micrococcus, thermonuclease-positive and coagulase-positive staphylococci, faecal streptococci, lactobacilli, yeasts and moulds. Great variability in chemical and microbiological characteristics of the samples was noted. Pathogenic or potentially pathogenic bacteria (Salmonella, coagulase- and thermonuclease-positive staphylococci) were absent, but sulphite-reducing clostridia were present in 50% of the samples (5 x 10.sup.1 to 5 x 10.sup.3 cfu/g).
- CC P (Milk and Dairy Products)
- CT CHEESE VARIETIES; DAIRY PRODUCTS; CHEESES SPECIFIC; PARMESAN CHEESE
- L13 ANSWER 3 OF 10 FSTA COPYRIGHT 2002 IFIS
- AN 1986(05):P0068 FSTA
- TI [Spoilage microorganisms encountered in ultra-high-temperature processed milk.]
- AU Lee, C. M.
- CS Dep. of Environmental Eng., Nat. Chung Hsing Univ., Taichung, Taiwan
- SO Chinese Journal of Microbiology and Immunology, (1984), 17 (2) 86-91, 22 ref.
- DT Journal
- LA Chinese
- SL English
- AB Of 40 strains of aerobic or facultative anaerobic microorganisms isolated from 37 samples of spoiled UHT milk, 13 were identified as Bacillus spp. There were 6 B. cereus, 5 B.

licheniformis, 1 B. brevis and 1 B. pumilus. The other 27 strains were identified as 5 yeasts, 2 Pseudomonas spp., 3 Streptococcus spp., 12 Lactobacillus spp., 1 Shigella sp., 1 Aeromonas sp. and 3 Micrococcus spp. Results indicate that the spoilage of milk was caused mainly by contamination during filling. Bacillus strains isolated were mesophilic or thermophilic, and some were also psychrotrophic.

- CC P (Milk and Dairy Products)
- CT MICROORGANISMS; MILK; SPOILAGE; MICROBIAL SPOILAGE; STERILIZED MILK; STERILIZED MILKS; STRAINS # UHT
- L13 ANSWER 4 OF 10 FSTA COPYRIGHT 2002 IFIS
- AN 1973(10):P1515 FSTA
- TI Bacteriology of dahi: i. Qualitative and quantitative studies of microflora of dahi.
- AU Sheikh, N. M.; Joarder, G. K.; Haroon, S. N.; Khatoon, M.
- CS PCSIR Lab., Dacca-2, Bangladesh
- SO Scientific Researches, East Regional Laboratories Pakistan Council for Scientific and Industrial Research, (1970), 7 (1) 1-8, 27 ref.
- DT Journal
- LA English
- AB Samples of dahi, 18-24 h old, were collected from the bottom of 6 dahi pots at 6 shops in Dacca and analysed within 3-4 h. Direct microscopic count ranged from 138 x 10.sup.7 to 319 x 10.sup.7 microorganisms/ml, and cocci predominated over rods in all but 1 of the samples. Total viable count on milk agar at 30.degree.C ranged from 22 x 10.sup.6 to 365 x 10.sup.6/ml; on Rogosa agar, lactobacillus count ranged from 1.7 x 10.sup.4 to 3 x 10.sup.6/ml at 30.degree.C when incubated under aerobic conditions, and from 2.2 x 10.sup.4 to 8.84 x 10.sup.6/ml under anaerobic conditions. Average composition of the microflora was 78.9% Streptococcus spp., 17.5% Lactobacillus spp., 1.8% Micrococcus spp. + unidentified cocci, 1.1% yeasts and 0.7% Bacillus spp. Only the streptococci and lactobacilli formed a curd, with or without whey separation, when incubated for 24 h at 37.degree.C in 10% skim-milk broth.
- CC P (Milk and Dairy Products)
- CT BACTERIOLOGY; FERMENTED MILK; CULTURED MILKS; DAHI
- L13 ANSWER 5 OF 10 FSTA COPYRIGHT 2002 IFIS
- AN 1973(08):P1072 FSTA
- TI [Microbiological study of evaporated milk during storage.]
- AU Sedunova, G. G.; Blok, G. G.; Chekulaeva, L. V.
- SO Trudy, Vologodskii Molochnyi Institut, (1972), No. 64, 61-68, 12 ref.
- DT Journal
- LA Russian
- AB Samples of evaporated milk, obtained from 3 dairy factories in the USSR, were examined after 3 months' storage for the presence of microorganisms using 5 different media. No yeast, moulds or coliforms were detected, the flora consisting mainly of aerobic and anaerobic sporeforming bacteria (15 of 20 strains isolated). 6 isolates, identified as belonging to the genera Bacillus, Micrococcus, Streptococcus and Mycobacterium, all produced catalase and were Gram-positive; 4 had adverse effects on the milk, 2 imparting sweetish taste and 1 bitter taste, whilst 1 increased the viscosity.
- CC P (Milk and Dairy Products)
- CT MICROBIOLOGY; MILK; EVAPORATED MILK; MILK (BACTERIOLOGY); STORED
- L13 ANSWER 6 OF 10 FSTA COPYRIGHT 2002 IFIS
- AN 1972(09):P1390 FSTA
- TI [Thermoduric microflora of cows' milk.]

- AU Tsonev, S.
- SO Veterinarnomeditsinski Nauki, (1972), 9 (2) 101-106, 12 ref.
- DT Journal
- LA Bulgarian
- SL Russian; English
- AB In a continuation of work described in the preceding abstr., counts of total bacteria, lactic acid bacteria, thermoduric bacteria, and aerobic and anaerobic sporeformers (after heating to 85.degree.C for 10 min) were determined in 122 samples of milk. Lactic streptococci accounted for 42-93% of the total flora of the milk, and for 83-99% of the thermoduric flora, in which Streptococcus thermophilus predominated; micrococci and aerobic and anaerobic sporeformers were also present. Coliforms were not detected in pasteurized milk.
- CC P (Milk and Dairy Products)
- CT BACTERIA; LACTIC ACID; MILK; STREPTOCOCCUS; LACTIC ACID
 BACTERIA; LACTIC STREPTOCOCCI; LACTOBACILLACEAE; MICROCOCCI;
 MICROCOCCUS; MILK (BACTERIOLOGY); STREPTOCOCCI;
 THERMODURIC; BACTERIA
- L13 ANSWER 7 OF 10 FSTA COPYRIGHT 2002 IFIS
- AN 1969(04):B0146 FSTA
- TI Taxonomy of some staphylococci and micrococci isolated from bovine teat canals and foremilks.
- AU Forbes, D.
- CS Central Vet. Lab., New Haw, Weybridge, Surrey, England
- SO Journal of Applied Bacteriology, (1968), 31 (4) 426-35, 21 ref.
- DT Journal
- LA English
- AB Taxonomy of 2404 cultures of Gram-positive, catalase-positive, non-mobile cocci, isolated from teat canal swabs and foremilk samples during 2 lactations, was studied using Baird-Parker's classification [J. gen. Microbiol. (1963) 30 (3) 409-27]. All cultures were examined using 8 reactions: coagulase, acid production from glucose in anaerobic conditions and from arabinose, lactose, maltose and mannitol in aerobic conditions, Voges-Proskauer reaction and phosphatase; most cultures were assigned to typical subgroups on the basis of these reactions. 300 of the cultures were further examined using 25 reactions. Tabulated results show that most of the cultures classified by 25 reactions fell into groups proposed by Baird-Parker.
- CC B (Biotechnology)
- CT BACTERIA; CATTLE; MILK; SCIENCE; STAPHYLOCOCCUS; BOVINE; MICROCOCCI; MICROCOCCUS; STAPHYLOCOCCI; TAXONOMY; TEAT CANALS FOREMILK
- L13 ANSWER 8 OF 10 FROSTI COPYRIGHT 2002 LFRA
- AN 563170 FROSTI
- TI Spoilage of processed foods: causes and diagnosis.
- AU Australian Institute of Food Science and Technology Incorporated Food Microbiology Group; Moir C.J.
- SO Published by: AIFST Inc., Waterloo DC, 2001, 428pp ISBN: 0-9578907-0-2
- NTE REFERENCE ONLY
- DT Book
- LA English
- AB This practical manual on the causes and diagnosis of processed food spoilage is split into five sections, the first being a general introduction to microbial and non-microbial food spoilage. Section 2, Processing technologies, covers: canned food technology; preservation of foods by chilling, changing water activity, fermentation, chemical preservatives, and non-thermal processing; the role of packaging in food preservation; and technology of water chlorination for canning. Section

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3, Spoilage of various food classes, covers: alcoholic beverages; soft
drinks, cordials, juices and bottled water; commercially sterile foods;
dried and concentrated foods; acid liquid foods; bakery and cereal
products; dairy products; eggs and egg products; marine and
freshwater foods; fruit juices; meat and meat products; edible oils and
spreads; vegetables and vegetable products; and sandwiches, edible films,
etc. Section 4, Investigating spoilage of processed foods, covers:
non-microbial spoilage; product-container reactions and container
testing; and procedures for diagnosing spoilage. Section 5, Physiology,
ecology and taxonomy of spoilage organisms, covers: anaerobic
and gram-positive aerobic spore-forming rods; gram-negative
aerobic bacteria and facultative rods; gram-positive cocci -
Micrococcus and Staphylococcus; lactic acid bacteria; Brocothrix
thermosphacta; Shewanella; moulds; and yeasts.
BACTERIA; CANNED FOODS; CHLORINATION; DETERIORATION; IDENTIFICATION;
MICROORGANISMS; MOULDS; PACKAGED FOODS; PACKAGING; PRESERVATION;
PRESERVED FOODS; PROCESSED FOODS; SPOILAGE; SPOILAGE BACTERIA; SPOILAGE
MICROORGANISMS; YEASTS
18 Sep 2001
ANSWER 9 OF 10 FROSTI COPYRIGHT 2002 LFRA
        FROSTI
Bacteria surviving boiling the raw milk and involved in later
spoilage of the product.
Abo-Elnaga I.G.
Microbiologie Aliments Nutrition, 1998, (January-March), 16 (1), 43-52
(25 ref.)
Journal
English
English
Raw milk frequently contains a variety of spoilage and
pathogenic microorganisms, and, in some countries, boiling the
milk is the only means of extending its shelf-life. The survival
of aerobic and facultatively anaerobic bacteria in
boiled milk was investigated, and bacteria involved in the
spoilage of the stored boiled milk were identified. Bacteria
present in boiled milk included Bacillus, Streptococcus,
Lactococcus, Enterococcus, Enterobacter, and Micrococcus spp,
and Clostridium perfringens. Spoilage of some samples of stored boiled
milk involved L. lactis, Enterobacter cloacae, Enterobacter
aerogenes, and Enterococcus faecalis.
CONTAMINATION
BOILED MILK; OCCURRENCE; PATHOGENIC BACTERIA; RAW MILK
; SPOILAGE BACTERIA; SURVIVAL
14 Aug 1998
ANSWER 10 OF 10 FROSTI COPYRIGHT 2002 LFRA
202701
        FROSTI
Microbiological methods.
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- L13
- AN
- ΤI
- ΑU Collins C.H.; Lyne P.M.; Grange J.M.
- SO London: Butterworths, 6th ed., 409pp., 1989 ISBN: 0-407-00885-3
- DTBook

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CTACETOBACTER; ACINETOBACTER; ACTINOMYCES; AEROBIC BACTERIA; AEROBIC MICROORGANISMS; AEROMONAS; ALCALIGENES; ANAEROBIC BACTERIA; ANAEROBIC MICROORGANISMS; ANALYTICAL EQUIPMENT; ANALYTICAL KITS; ANTIBIOTIC RESISTANCE; ANTIBIOTICS; ANTIBODIES; BACILLUS; BACTERIA; BASIC GUIDE; BIOASSAYS; BIOCHEMICAL PROPERTIES; BRUCELLA; CABINETS; CAMPYLOBACTER; CANNED FOODS; CEREALS; CHIGELLA; CHROMOBACTERIUM; CITROBACTER; CLOSTRIDIUM; CONFECTIONERY; CONTAMINATION; CORYNEBACTERIUM; COUNTING; DAIRY PRODUCTS; DESTRUCTION; DETERMINATION; DISINFECTANTS; EGGS; ENTEROBACTER; EQUIPMENT; ESCHERICHIA; EVALUATION; FILTRATION; FISH; FLAVOBACTERIUM; FOOD POISONING; FUNGI; GROWTH; HANDLING; HUMANS; IDENTIFICATION; IDENTIFYING; IMMUNOLOGY; KLEBSIELLA; LABORATORIES; LABORATORY EQUIPMENT; LACTOBACILLUS; LEGIONELLA; MEAT; MEAT CONTAMINATING; MEAT PRODUCTS; MEDIA; MICROBIOLOGICAL MEDIA; MICROCOCCUS; MICROORGANISMS; MICROSCOPES; MILK; MYCOBACTERIUM; PATHOGENIC; PATHOGENIC BACTERIA; PATHOGENIC MICROORGANISMS; PATHOGENICITY; PLESIOMONAS; POISONING; POULTRY MEAT; PROPERTIES; PROTEUS; PSEUDOMONAS; RESISTANCE; SAFETY; SALMONELLA; SHIGELLA; SOFT DRINKS; STAINING; STAPHYLOCOCCUS; STERILIZATION; STREPTOCOCCUS; SYMPTOMS; TOXICITY; TYPE; TYPES; VIBRIO; WATER

DED 19 Jul 1989